

FIG. 1

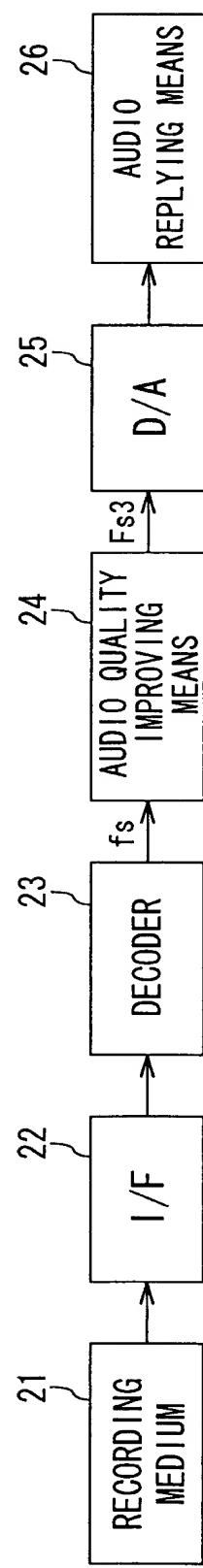


FIG. 2

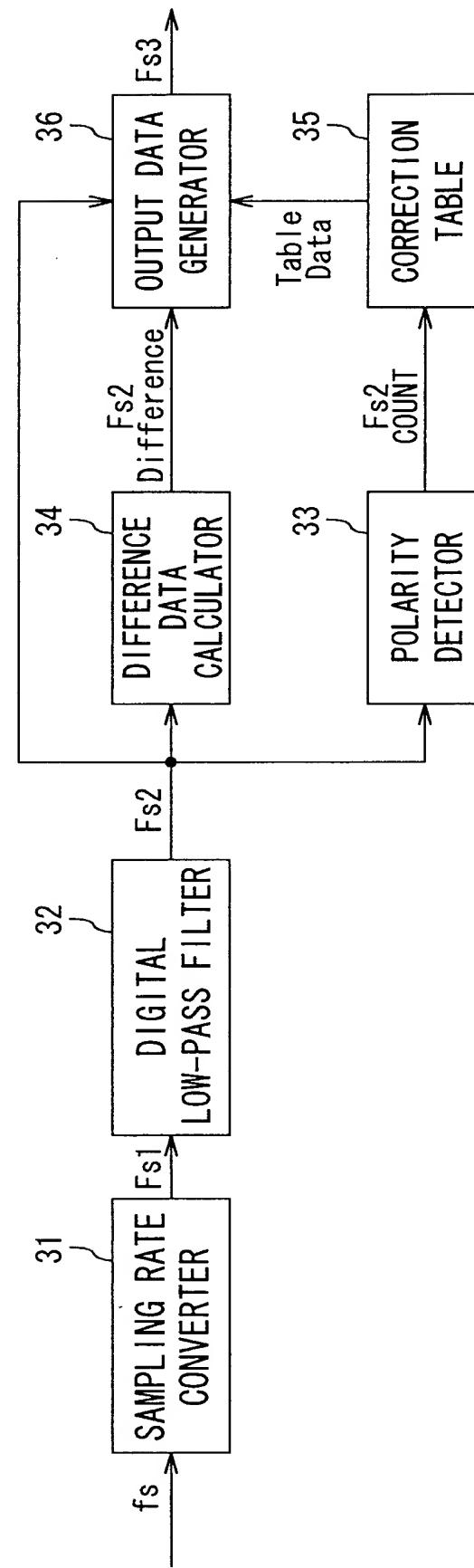


FIG. 3



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ALGORITHM OF DOUBLE-EXTENDED SAMPLING

INPUT DATA SAMPLED AT RATE = f_s	OUTPUT DATA CONVERTED TO RATE= F_s ($=2 \times f_s$)
m	m
$m+1$	0
$m+2$	$m+1$
$m+3$	0
.	$m+2$
.	0
.	$m+3$
	0
	.
	.

FIG. 4



CORRECTION TABLE A

Fs2COUNT	3 (=2Fs)	4 (=3Fs)	5 (=4Fs)	6 (=5Fs)
n=1	0	0	0	0
n=2	1/4 (= α)			
n=3	-	-1/4 (= β)	0	0
n=4	-	-	-1/4 (= β)	0
n=5	-	-	-	-1/4 (= β)

FIG. 5A

CORRECTION TABLE B

Fs2COUNT	3 (=2Fs)	4 (=3Fs)	5 (=4Fs)	6 (=5Fs)
n=1	0	0	0	0
n=2	-1/4 (= β)	-1/4 (= γ)	-1/4 (= γ)	-1/4 (= γ)
n=3	-	1/4 (= θ)	0	0
n=4	-	-	1/4 (= θ)	0
n=5	-	-	-	1/4 (= θ)

FIG. 5B

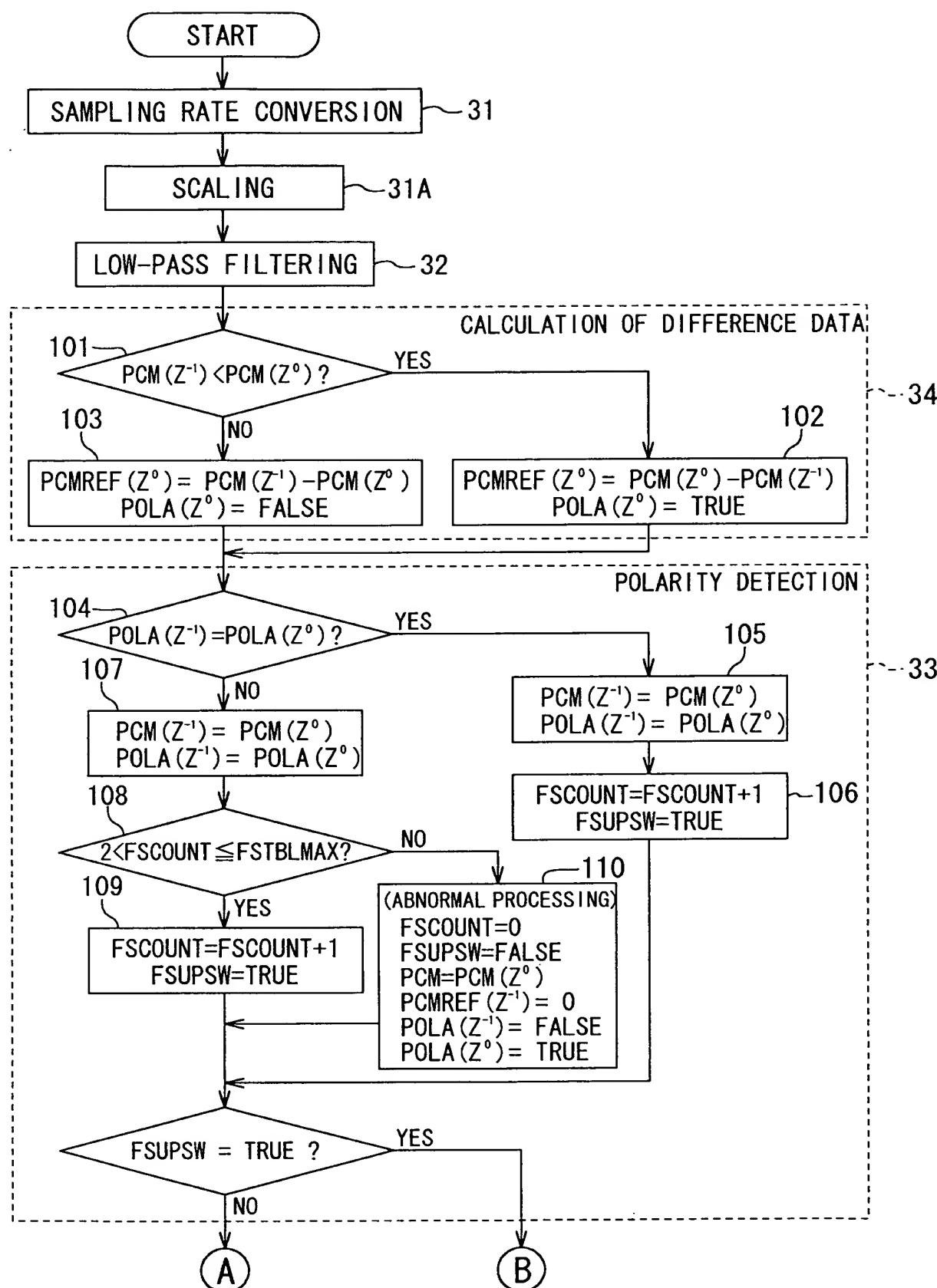


FIG. 6

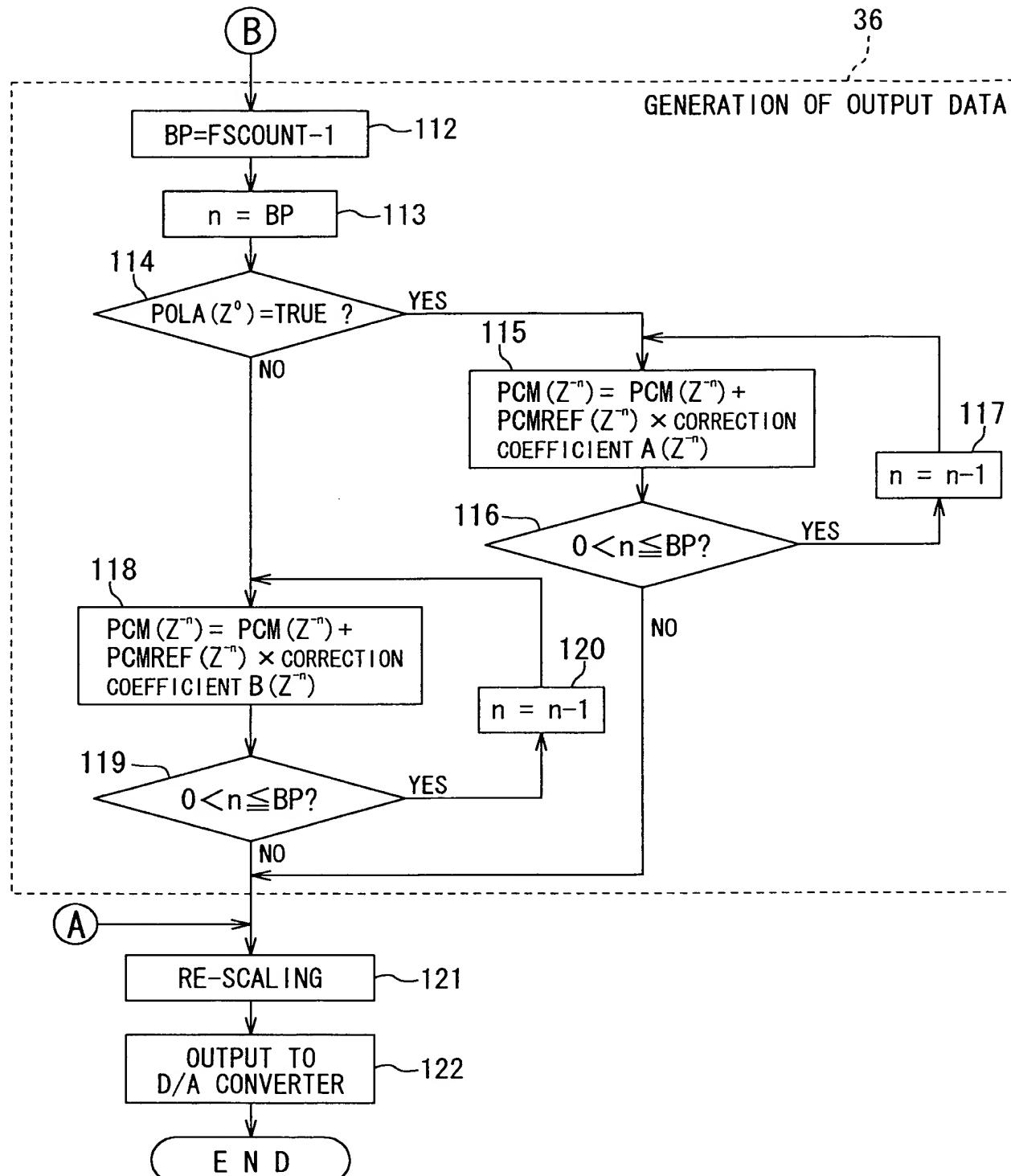
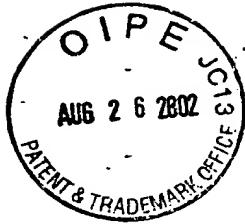
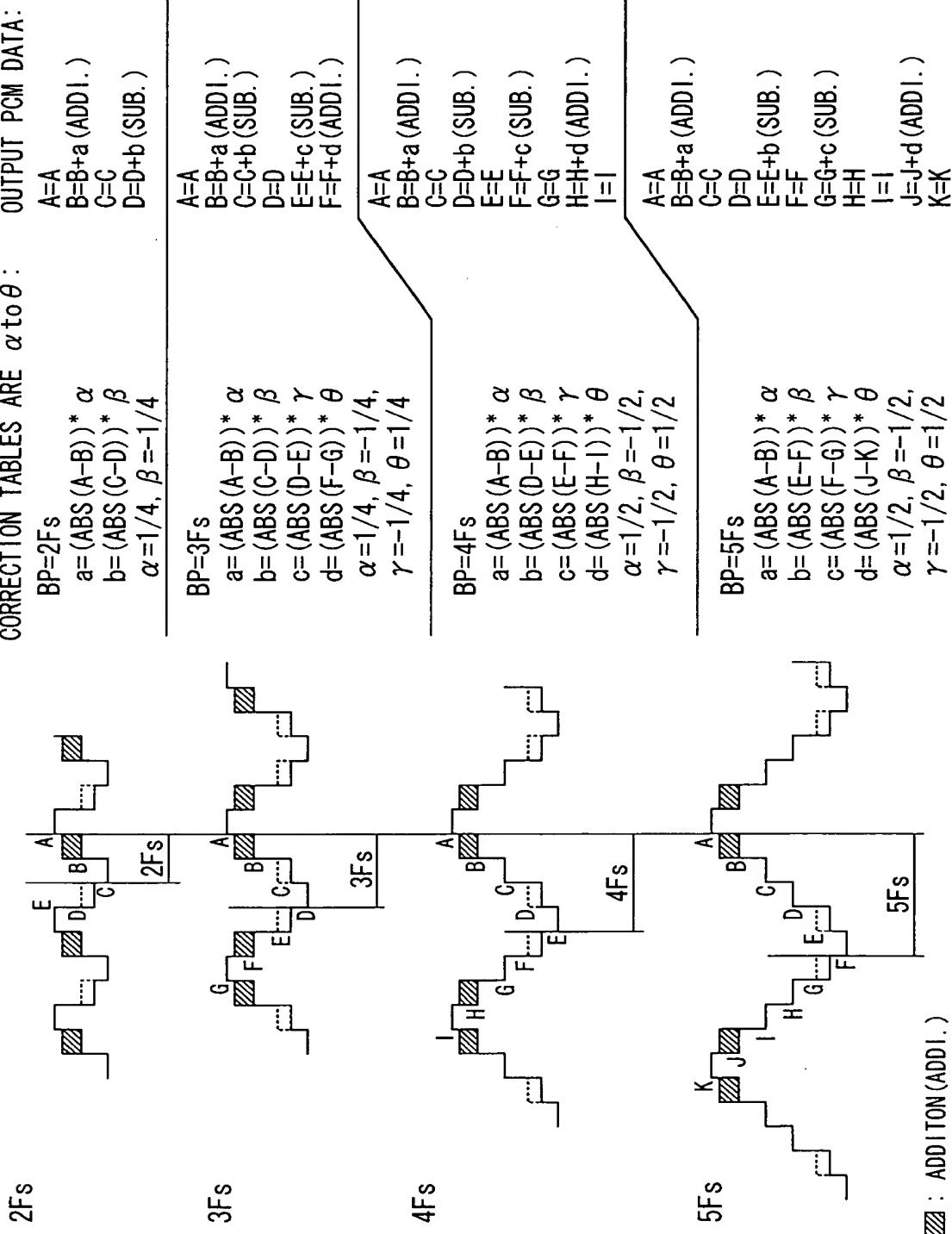


FIG. 7



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WHEN CORRECTION VALUES
ARE α to δ AND VALUES FROM
CORRECTION TABLES ARE α to θ :

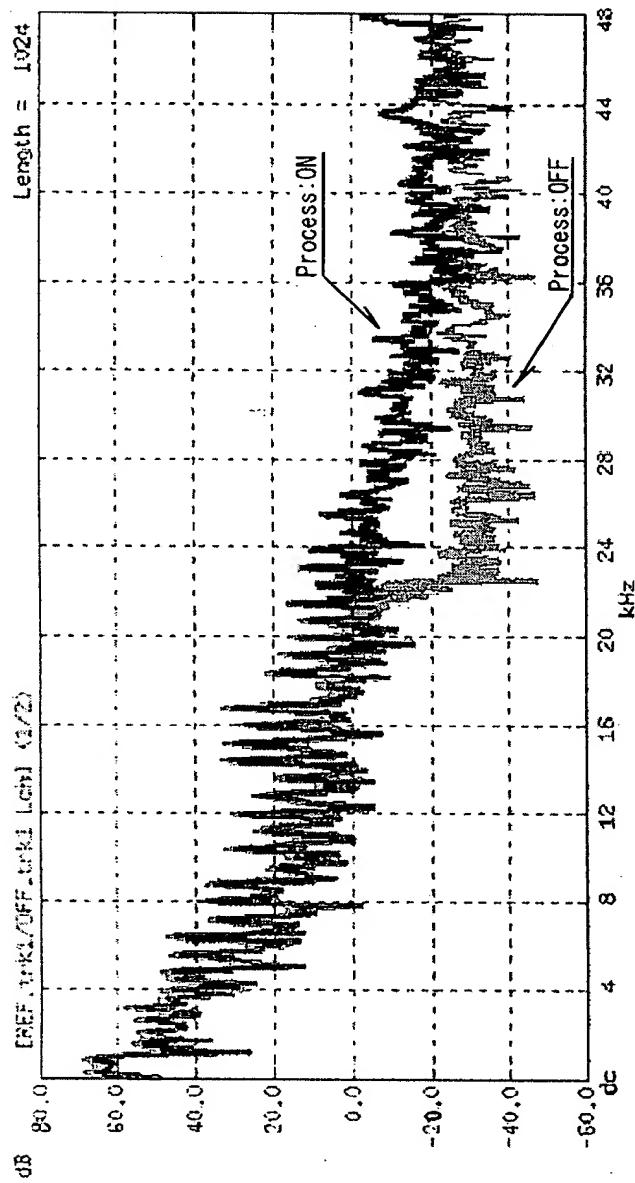


■ : ADDITION (ADDI.)
□ : SUBTRACTION (SUB.)

FIG. 8



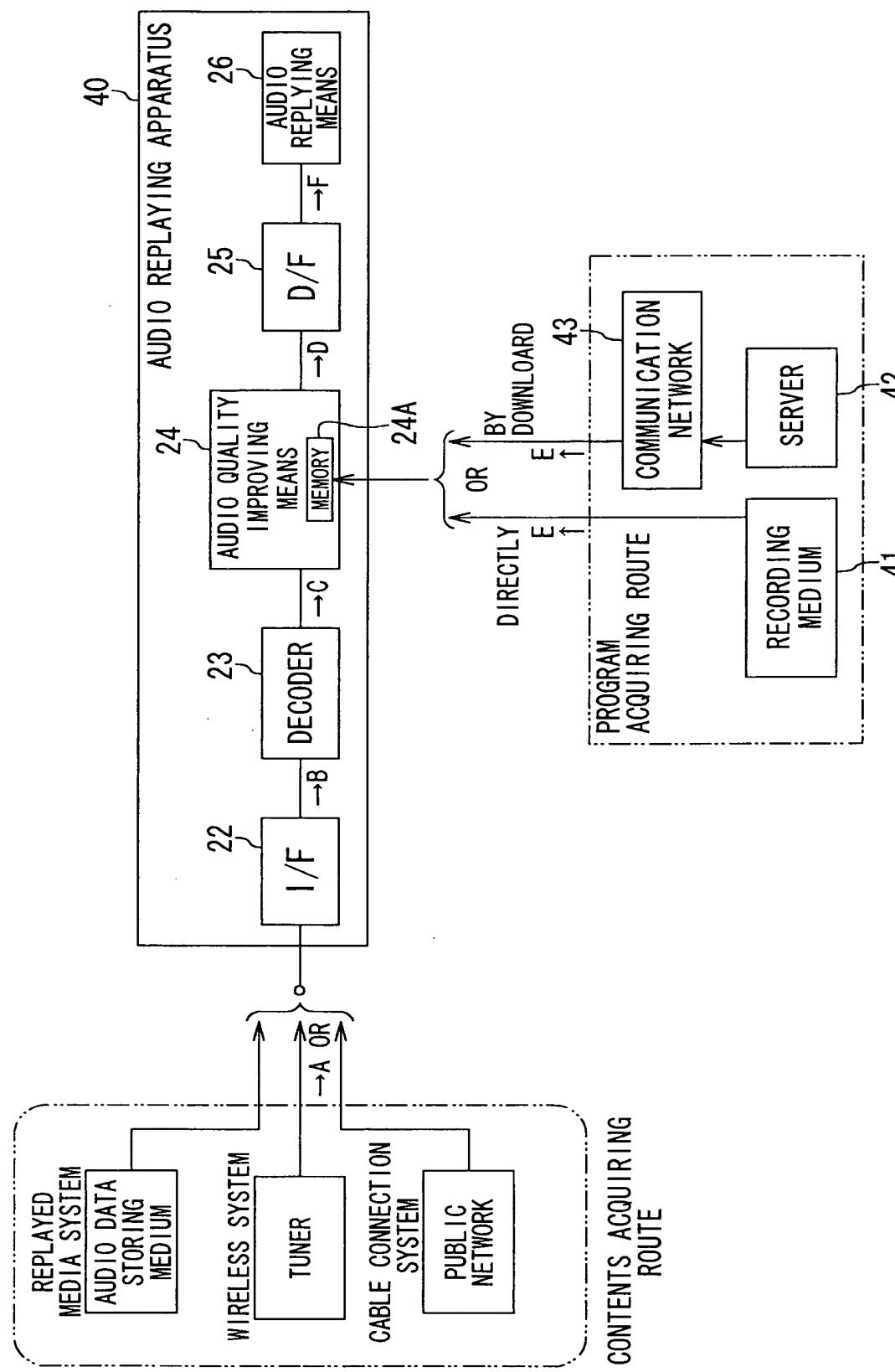
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OUTPUT LEVELS OF SPECTRUM ANALYZER

[
UPPER (ON) : WITH VOICE-QUALITY IMPROVEMENT PROCESSING
LOWER (OFF) : WITHOUT VOICE-QUALITY IMPROVEMENT PROCESSING
]

FIG. 9



E | G |



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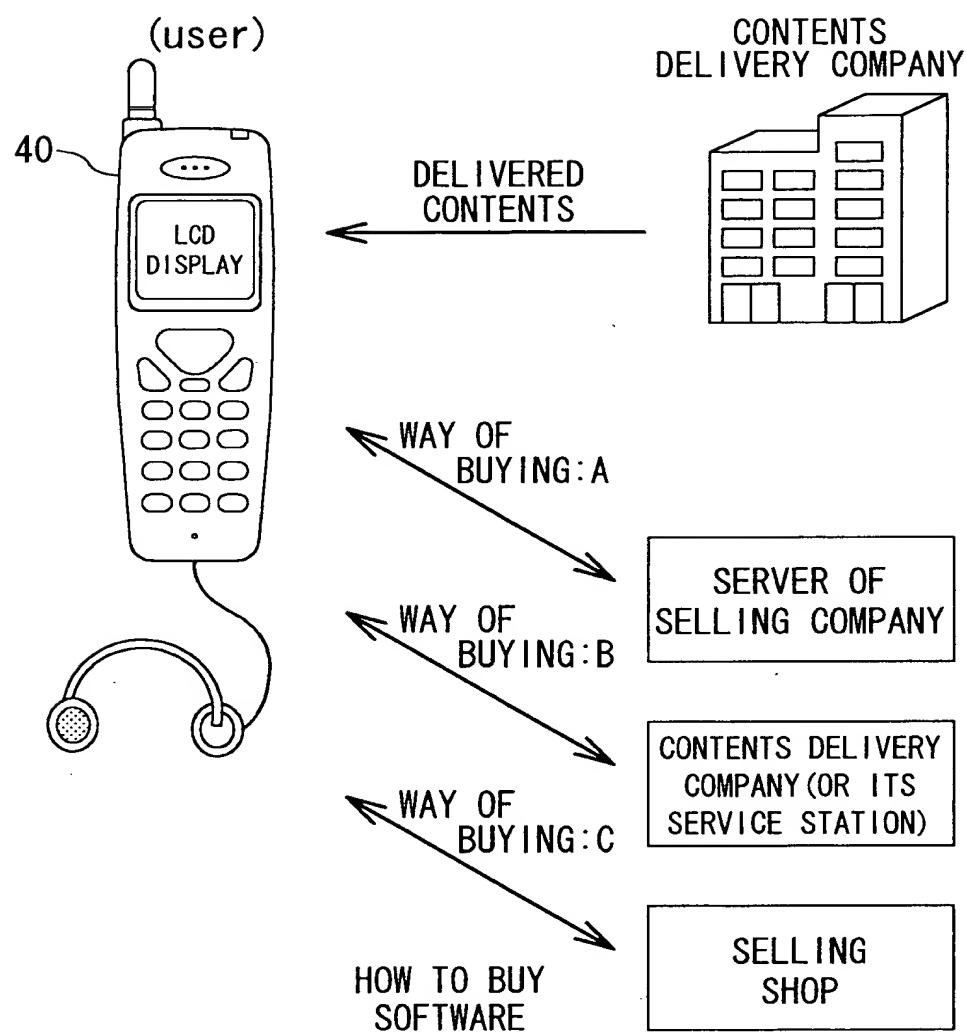


FIG. 11